

DAFTAR PUSTAKA

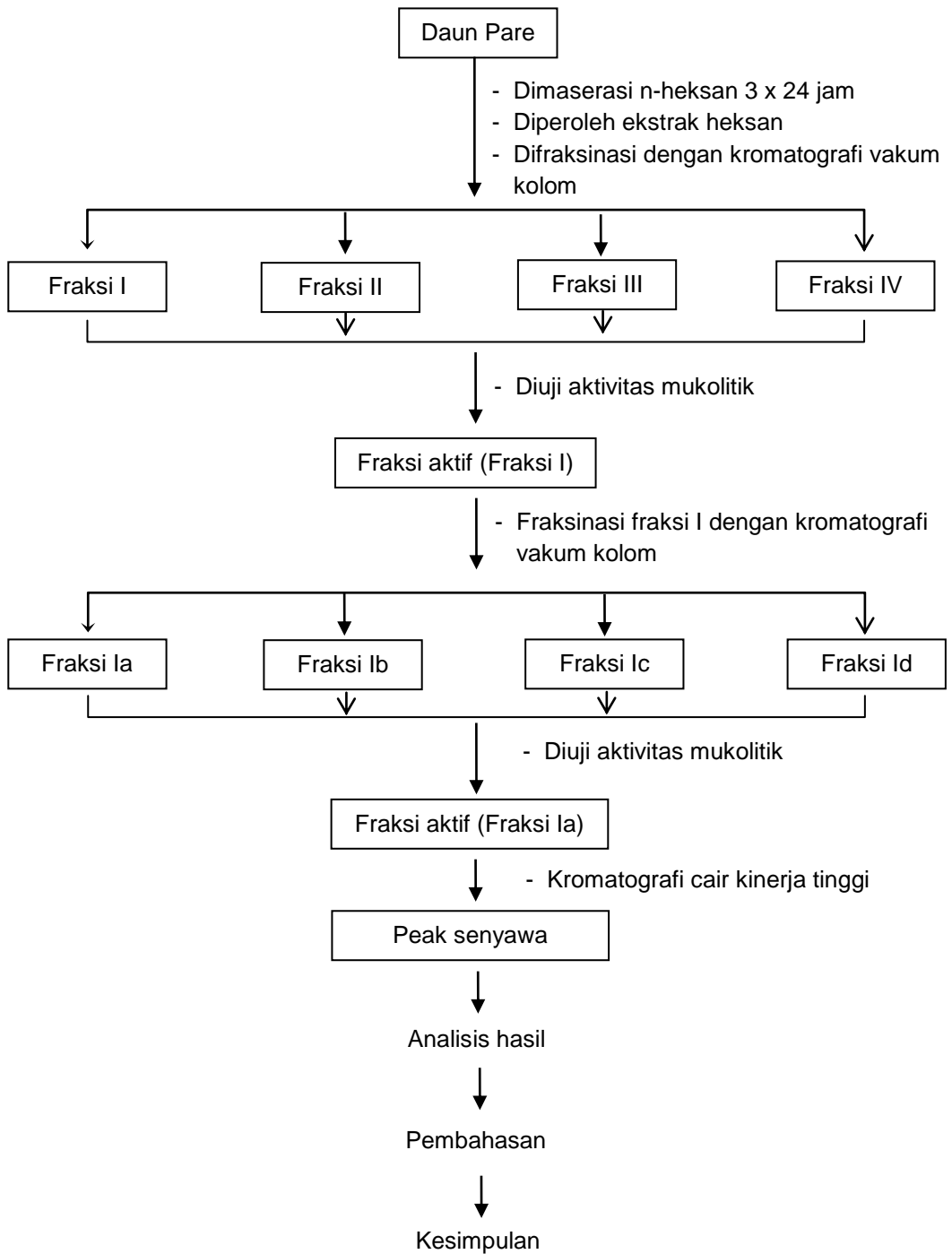
1. Price SA, Lorraine M. Wilson. *Patofisiologi Konsep Klinis Proses-proses Penyakit*. Ahli bahasa oleh Brahm U. Pendit dkk. Penerbit buku kedokteran EGC. Jakarta. 2006. hal.736.
2. Lubis, HM. *Batuk Kronik dan Berulang (BKB) pada Anak:Bagian Ilmu Kesehatan Anak Fakultas Kedokteran Universitas Sumatera Utara*. 2005. hal.1.
3. Tan Hoan Tjay. *Obat-obat Penting Khasiat, Penggunaan dan Efek-efek Sampingnya Edisi Kelima*. PT Elex Media Komputindo Kelompok Gramedia. Jakarta. 2002. hal.620-2.
4. Wijayanti AW. *Uji Aktifitas Mukolitik Infusa Daun Pare (Momordica charantia L.) pada Mukus Usus Sapi secara In vitro*. 2008:2(1). hal.2-3.
5. Grover, J.K. dan Yadan S.P. *Medicinal Plants of India With Antidiabetic Potensial. Journal of Ethnopharmacology*. 2002. pp.81-100.
6. Bitter Melon [Online]. 2013 April 23 [cited 2009 Jan 16]. Available from: [URL:http://www.wikipedia.com/bitter_melon.html](http://www.wikipedia.com/bitter_melon.html).
7. Syamsuhidayat. *Inventarisasi Tanaman Obat Indonesia, edisi kedua, Departemen Kesehatan RI*. Jakarta. 1991.
8. Departemen Teknologi Pertanian DKI Jakarta. Tanaman Pare [online]. [cited 2009 Jan 12]; Available from: [URL:http://www.pustakadeptan.go.id/agritek/dkij0118.pdf](http://www.pustakadeptan.go.id/agritek/dkij0118.pdf).
9. Tanaman Obat Indonesia [Online]. 2007 Aug 1 [cited 2008 Dec 20]; Available from: [URL:http://www.iptek.net.id](http://www.iptek.net.id).
10. Hyeronimus SB. *Ragam dan Khasiat Tanaman Obat*. 1st ed. Jakarta: Agro Media. 2006.
11. Subahar TS. *Khasiat dan Manfaat Pare*. Penerbit Agromedia Pustaka. Jakarta. 2004.
12. Bitter Melon [Online]. 2008 July 24 [cited 2009 Jan 16]. Available from: [URL:http://www.wikipedia.com/bitter_melon.html](http://www.wikipedia.com/bitter_melon.html).

13. Bitter Melon: Ampalaya (bitter melon, kugazi, Balsam pear) (fruit) (*Momordica Charantia*, Karela) [Online]. 2005 [cited 2008 Dec 19]. Available from:
URL:<http://lecnaturalhealingsolutions.com/plants/bittermelon.html>.
14. Rachmawati S, Adiwinata G, Murdiati T B, Sulistianingsih T. *Kandungan Kimia Daun Pare (Momordica charantia L.) dan Efek Antelmintik Terhadap Cacing Lambung (Haemonchus contortus Rudolphi)*. Fakultas Mipa Institut Sains dan Teknologi Nasional. Jakarta. 2001. hal.5,7.
15. Virdi J, Sivakami S, Shahani S, et al. *Antihyperglycemic effects of three extracts from Momordica charantia*. J Ethnopharmacol 2003;88(1). pp.07-111.
16. Direktorat Jenderal Pengawasan Obat dan Makanan. *Sediaan Galenik*. Departemen Kesehatan RI. Jakarta. 1986. hal.4-6, 10-12.
17. Cooke M dan Poole CF. *Encyclopedia of Separation Science*. USA: Academic Press. 2000. p.2809.
18. Mutschler E. *Dinamika Obat: Farmakologi dan Toksikologi Ed. 5*. Penerbit ITB. Bandung. 1999. hal.519-520.
19. Santoso B, Siswosudarmo R, Suryawati S, Dwiprahasto I, Asdie. *Penapisan Farmakologi, Pengujian Fitokimia dan Pengujian Klinik*. Jakarta. 1993. hal.63.
20. Noerdin, D. *Elusidasi Struktur Senyawa Organik Dengan Cara Spektroskopi Ultralembayung dan Inframerah*. Penerbit Angkasa. Bandung. 1986. hal.71-77, 81.
21. Martin A, Swarbrick J, Cammarata A. *Farmasi Fisik*. Jakarta. 2008. hal.1098.
22. Williams, H. D, Fleming. *Spectroscopic Methods In Organic Chemistry*. Fourth Edition. Published by McGraw- Hill, Book Company (UK) Limited. England. 1987. pp.29-30.
23. Gandjar I.G., Rohman A. *Kimia Analisis Farmasi*. Pustaka Pelajar. Yogyakarta. 2007. hal.353,366,378-406.
24. Rohman A. *Kromatografi Untuk Analisis Obat*. Graham Ilmu. Yogyakarta. 2009. hal.53,112-121.

25. Mulja H.M. *Teknik Kromatografi (KLT, GC, KCKT, GC-MS, LC-MS, ICP-MS, GC/FT-IR/MS)*. Pada Ceramah Ilmiah Pelatihan Bidang Narkoba. Pusat Lab. Forensik Mabes Polri. 2006. hal.4,11.
26. Saifuddin A, Rahayu V, dan Teruna H.Y. *Standarisasi bahan obat alam*. Edisi I. Graha Ilmu. Yogyakarta. 2010. hal.4,22,26-28,45.
27. Adnan M. *Teknik Kromatografi untuk Analisis Bahan Makanan*. Penerbit ANDI. Yogyakarta. 1997. hal.36,38.

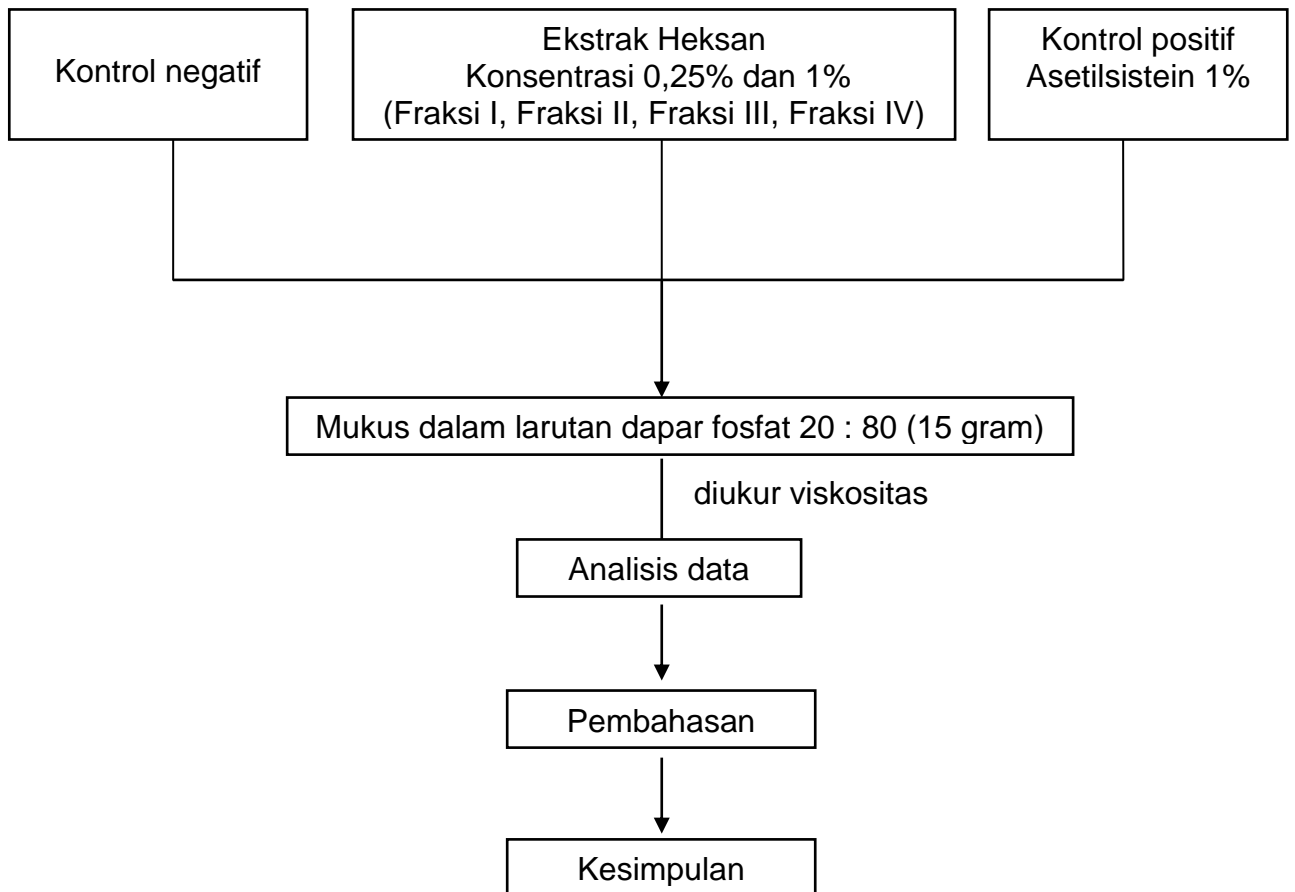
LAMPIRAN I

Skema Kerja



LAMPIRAN II

Skema Kerja Uji Aktivitas Mukolitik



LAMPIRAN III

Perhitungan aktivitas mukolitik secara *in vitro* (viskositas) ekstrak heksan daun pare (*Momordica charantia* L.)

Tabel 5. Data waktu alir uji aktivitas mukolitik fraksi Ekstrak heksan

| No | Sampel Uji | Data Waktu Alir (detik) | | | |
|----|-------------------|-------------------------|-------|-------|-----------|
| | | 1 | 2 | 3 | Rata-rata |
| 1 | Fraksi I 0,25 % | 10,17 | 10,84 | 10,44 | 10,48 |
| 2 | Fraksi I 1 % | 10,74 | 10,92 | 10,92 | 10,86 |
| 3 | Fraksi II 0,25 % | 14,23 | 14,62 | 13,81 | 14,22 |
| 4 | Fraksi II 1 % | 15,54 | 18,34 | 17,83 | 17,24 |
| 5 | Fraksi III 0,25 % | 15,72 | 13,80 | 16,36 | 15,29 |
| 6 | Fraksi III 1 % | 14,87 | 15,48 | 15,58 | 15,31 |
| 7 | Fraksi IV 0,25 % | 15,09 | 15,41 | 15,81 | 15,44 |
| 8 | Fraksi IV 1 % | 13,98 | 14,15 | 13,89 | 14,01 |
| 9 | Kontrol + | 10,01 | 9,70 | 9,70 | 9,80 |
| 10 | Kontrol - | 15,35 | 18,02 | 20,90 | 18,09 |
| 11 | Air Suling | 8,35 | 8,50 | 8,58 | 8,48 |

Tabel 6. Data bobot jenis larutan uji fraksi ekstrak heksan

| No | Sampel Uji | Bobot Jenis Larutan (gram/ml) | | | |
|----|-------------------|-------------------------------|-------|-------|-----------|
| | | 1 | 2 | 3 | Rata-rata |
| 1 | Fraksi I 0,25 % | 1,093 | 1,004 | 1,095 | 1,064 |
| 2 | Fraksi I 1 % | 1,000 | 1,090 | 1,004 | 1,031 |
| 3 | Fraksi II 0,25 % | 1,041 | 1,094 | 1,043 | 1,059 |
| 4 | Fraksi II 1 % | 1,050 | 1,044 | 1,054 | 1,049 |
| 5 | Fraksi III 0,25 % | 1,051 | 1,038 | 1,054 | 1,048 |
| 6 | Fraksi III 1 % | 1,052 | 1,035 | 1,038 | 1,042 |
| 7 | Fraksi IV 0,25 % | 1,005 | 1,005 | 1,005 | 1,005 |
| 8 | Fraksi IV 1 % | 1,051 | 1,038 | 1,054 | 1,048 |
| 9 | Kontrol + | 1,040 | 1,044 | 1,045 | 1,043 |
| 10 | Kontrol - | 1,098 | 1,004 | 1,007 | 1,036 |
| 11 | Air Suling | 1,042 | 1,040 | 1,045 | 1,042 |

Perhitungan bobot jenis (BJ) air pada suhu 37⁰C

$$\begin{aligned} \text{BJ} &= \frac{\text{Bobot air (g)} - \text{bobot piknometer kosong (g)}}{\text{Volume piknometer rata-rata (ml)}} \\ &= \frac{20,800 \text{ g} - 10,379 \text{ g}}{10 \text{ ml}} = 1,042 \end{aligned}$$

Bobot jenis air pada suhu 37⁰C adalah 1,042.

Diketahui bobot piknometer kosong : I = 9,667 g

$$\text{II} = 10,379 \text{ g}$$

Volume piknometer kosong : 10 ml

Perhitungan bobot jenis larutan uji yang mengandung fraksi heksan

$$\text{Bobot jenis mukus (37}^0\text{C)} = \frac{\text{Bobot mukus (g)} - \text{bobot piknometer kosong (g)}}{\text{Volume piknometer rata-rata (ml)}}$$

Fraksi I 1%

$$\text{BJ} = \frac{\text{Bobot mukus (g)} - \text{bobot piknometer kosong (g)}}{\text{Volume piknometer rata-rata (ml)}}$$

$$\text{BJ} = \frac{19,669 \text{ g} - 9,667 \text{ g}}{10 \text{ ml}} = 1,000$$

$$\text{BJ} = \frac{21,277 \text{ g} - 10,379 \text{ g}}{10 \text{ ml}} = 1,090$$

$$\text{BJ} = \frac{19,708 \text{ g} - 9,667 \text{ g}}{10 \text{ ml}} = 1,004$$

Fraksi I 0,25%

$$BJ = \frac{21,306 \text{ g} - 10,379 \text{ g}}{10 \text{ ml}} = 1,093$$

$$BJ = \frac{19,710 \text{ g} - 9,667 \text{ g}}{10 \text{ ml}} = 1,004$$

$$BJ = \frac{21,324 \text{ g} - 10,379 \text{ g}}{10 \text{ ml}} = 1,095$$

Fraksi II 1%

$$BJ = \frac{20,879 \text{ g} - 10,379 \text{ g}}{10 \text{ ml}} = 1,050$$

$$BJ = \frac{20,110 \text{ g} - 9,667 \text{ g}}{10 \text{ ml}} = 1,044$$

$$BJ = \frac{20,916 \text{ g} - 10,379 \text{ g}}{10 \text{ ml}} = 1,054$$

Fraksi II 0,25%

$$BJ = \frac{20,072 \text{ g} - 9,667 \text{ g}}{10 \text{ ml}} = 1,041$$

$$BJ = \frac{21,319 \text{ g} - 10,379 \text{ g}}{10 \text{ ml}} = 1,094$$

$$BJ = \frac{20,098 \text{ g} - 9,667 \text{ g}}{10 \text{ ml}} = 1,043$$

Fraksi III 1%

$$BJ = \frac{20,900 \text{ g} - 10,379 \text{ g}}{10 \text{ ml}} = 1,052$$

$$BJ = \frac{20,013 \text{ g} - 9,667 \text{ g}}{10 \text{ ml}} = 1,035$$

$$BJ = \frac{20,045 \text{ g} - 9,667 \text{ g}}{10 \text{ ml}} = 1,038$$

Fraksi III 0,25%

$$BJ = \frac{20,886 \text{ g} - 10,379 \text{ g}}{10 \text{ ml}} = 1,051$$

$$BJ = \frac{20,042 \text{ g} - 9,667 \text{ g}}{10 \text{ ml}} = 1,038$$

$$BJ = \frac{20,918 \text{ g} - 10,379 \text{ g}}{10 \text{ ml}} = 1,054$$

Fraksi IV 1%

$$BJ = \frac{20,892 \text{ g} - 10,379 \text{ g}}{10 \text{ ml}} = 1,051$$

$$BJ = \frac{20,885 \text{ g} - 10,379 \text{ g}}{10 \text{ ml}} = 1,051$$

$$BJ = \frac{20,849 \text{ g} - 10,379 \text{ g}}{10 \text{ ml}} = 1,047$$

Fraksi IV 0,25%

$$BJ = \frac{19,720 \text{ g} - 9,667 \text{ g}}{10 \text{ ml}} = 1,005$$

$$BJ = \frac{19,718 \text{ g} - 9,667 \text{ g}}{10 \text{ ml}} = 1,005$$

$$BJ = \frac{19,714 \text{ g} - 9,667 \text{ g}}{10 \text{ ml}} = 1,005$$

Kontrol Positif

$$BJ = \frac{20,068 \text{ g} - 9,667 \text{ g}}{10 \text{ ml}} = 1,040$$

$$BJ = \frac{20,108 \text{ g} - 9,667 \text{ g}}{10 \text{ ml}} = 1,044$$

$$BJ = \frac{20,120 \text{ g} - 9,667 \text{ g}}{10 \text{ ml}} = 1,045$$

Kontrol Negatif

$$BJ = \frac{21,360 \text{ g} - 10,379 \text{ g}}{10 \text{ ml}} = 1,098$$

$$BJ = \frac{19,710 \text{ g} - 9,667 \text{ g}}{10 \text{ ml}} = 1,004$$

$$BJ = \frac{19,732 \text{ g} - 9,667 \text{ g}}{10 \text{ ml}} = 1,007$$

Perhitungan viskositas larutan uji pada suhu 37°C

$$\eta \text{ mukus} = \frac{\rho \text{ larutan uji } 37^{\circ}\text{C} \times t \text{ larutan uji } 37^{\circ}\text{C}}{\rho \text{ air } 37^{\circ}\text{C} \times t \text{ air } 37^{\circ}\text{C}} \times \eta \text{ air } 37^{\circ}\text{C}$$

Diketahui :

$$\eta \text{ air pada suhu } 37^{\circ}\text{C} = 0,692 \text{ cps}$$

$$t \text{ air} = 8,48 \text{ dtk}$$

η Fraksi I 1%

$$\eta \text{ larutan uji} = \frac{1,000 \times 10,74}{1,042 \times 8,35} \times 0,692 = 0,854 \text{ cps}$$

$$\eta \text{ larutan uji} = \frac{1,090 \times 10,92}{1,040 \times 8,50} \times 0,692 = 0,931 \text{ cps}$$

$$\eta \text{ larutan uji} = \frac{1,004 \times 10,92}{1,045 \times 8,58} \times 0,692 = 0,846 \text{ cps}$$

$$\eta \text{ larutan uji rata-rata} = 0,877 \text{ cps}$$

η Fraksi I 0,25%

$$\eta \text{ larutan uji} = \frac{1,093 \times 10,17}{1,042 \times 8,35} \times 0,692 = 0,883 \text{ cps}$$

$$\eta \text{ larutan uji} = \frac{1,004 \times 10,84}{1,040 \times 8,50} \times 0,692 = 0,851 \text{ cps}$$

$$\eta \text{ larutan uji} = \frac{1,095 \times 10,44}{1,045 \times 8,58} \times 0,692 = 0,882 \text{ cps}$$

$$\eta \text{ larutan uji rata-rata} = 0,872 \text{ cps}$$

η Fraksi II 1%

$$\eta \text{ larutan uji} = \frac{1,050 \times 15,54}{1,042 \times 8,35} \times 0,692 = 1,297 \text{ cps}$$

$$\eta \text{ larutan uji} = \frac{1,044 \times 18,34}{1,040 \times 8,50} \times 0,692 = 1,498 \text{ cps}$$

$$\eta \text{ larutan uji} = \frac{1,054 \times 17,83}{1,045 \times 8,58} \times 0,692 = 1,449 \text{ cps}$$

η larutan uji rata-rata = 1,415 cps

η Fraksi II 0,25%

$$\eta \text{ larutan uji} = \frac{1,041 \times 14,23}{1,042 \times 8,35} \times 0,692 = 1,177 \text{ cps}$$

$$\eta \text{ larutan uji} = \frac{1,094 \times 14,62}{1,040 \times 8,50} \times 0,692 = 1,251 \text{ cps}$$

$$\eta \text{ larutan uji} = \frac{1,043 \times 13,81}{1,045 \times 8,58} \times 0,692 = 1,111 \text{ cps}$$

η larutan uji rata-rata = 1,180 cps

η Fraksi III 1%

$$\eta \text{ larutan uji} = \frac{1,052 \times 14,87}{1,042 \times 8,35} \times 0,692 = 1,243 \text{ cps}$$

$$\eta \text{ larutan uji} = \frac{1,035 \times 15,48}{1,040 \times 8,50} \times 0,692 = 1,253 \text{ cps}$$

$$\eta \text{ larutan uji} = \frac{1,038 \times 15,58}{1,045 \times 8,58} \times 0,692 = 1,247 \text{ cps}$$

η larutan uji rata-rata = 1,248 cps

η Fraksi III 0,25%

$$\eta \text{ larutan uji} = \frac{1,051 \times 15,72}{1,042 \times 8,35} \times 0,692 = 1,313 \text{ cps}$$

$$\eta \text{ larutan uji} = \frac{1,038 \times 13,80}{1,040 \times 8,50} \times 0,692 = 1,121 \text{ cps}$$

$$\eta \text{ larutan uji} = \frac{1,054 \times 16,36}{1,045 \times 8,58} \times 0,692 = 1,330 \text{ cps}$$

η larutan uji rata-rata = 1,254 cps

η Fraksi IV 1%

$$\eta \text{ larutan uji} = \frac{1,051 \times 13,98}{1,042 \times 8,35} \times 0,692 = 1,168 \text{ cps}$$

$$\eta \text{ larutan uji} = \frac{1,038 \times 14,15}{1,040 \times 8,50} \times 0,692 = 1,149 \text{ cps}$$

$$\eta \text{ larutan uji} = \frac{1,054 \times 13,89}{1,045 \times 8,58} \times 0,692 = 1,129 \text{ cps}$$

η larutan uji rata-rata = 1,149 cps

η Fraksi IV 0,25%

$$\eta \text{ larutan uji} = \frac{1,005 \times 15,09}{1,042 \times 8,35} \times 0,692 = 1,205 \text{ cps}$$

$$\eta \text{ larutan uji} = \frac{1,005 \times 15,41}{1,040 \times 8,50} \times 0,692 = 1,211 \text{ cps}$$

$$\eta \text{ larutan uji} = \frac{1,005 \times 15,81}{1,045 \times 8,58} \times 0,692 = 1,225 \text{ cps}$$

η larutan uji rata-rata = 1,214 cps

η Kontrol Positif

$$\eta \text{ larutan uji} = \frac{1,040 \times 10,01}{1,042 \times 8,35} \times 0,692 = 0,827 \text{ cps}$$

$$\eta \text{ larutan uji} = \frac{1,044 \times 9,70}{1,040 \times 8,50} \times 0,692 = 0,792 \text{ cps}$$

$$\eta \text{ larutan uji} = \frac{1,045 \times 9,70}{1,045 \times 8,58} \times 0,692 = 0,782 \text{ cps}$$

η larutan uji rata-rata = 0,800 cps

η Kontrol Negatif

$$\eta \text{ larutan uji} = \frac{1,098 \times 15,35}{1,042 \times 8,35} \times 0,692 = 1,340 \text{ cps}$$

$$\eta \text{ larutan uji} = \frac{1,004 \times 18,02}{1,040 \times 8,50} \times 0,692 = 1,415 \text{ cps}$$

$$\eta \text{ larutan uji} = \frac{1,007 \times 20,90}{1,045 \times 8,58} \times 0,692 = 1,623 \text{ cps}$$

η larutan uji rata-rata = 1,459 cps

Tabel 7. Data waktu alir uji aktivitas mukolitik fraksi I Ekstrak heksan

| No | Sampel Uji | Data Waktu Alir (detik) | | | |
|----|---------------------|-------------------------|-------|-------|-----------|
| | | 1 | 2 | 3 | Rata-rata |
| 1 | Subfraksi Ia 0,25 % | 10,45 | 10,47 | 10,41 | 10,44 |
| 2 | Subfraksi Ia 1 % | 10,77 | 10,67 | 10,30 | 10,58 |
| 3 | Subfraksi Ib 0,25 % | 13,71 | 13,64 | 13,62 | 13,66 |
| 4 | Subfraksi Ib 1 % | 13,66 | 13,67 | 13,63 | 13,65 |
| 5 | Subfraksi Ic 0,25 % | 15,06 | 15,51 | 14,65 | 15,07 |
| 6 | Subfraksi Ic 1 % | 12,74 | 15,15 | 15,62 | 14,50 |
| 7 | Subfraksi Id 0,25 % | 12,68 | 13,38 | 13,51 | 13,19 |
| 8 | Subfraksi Id 1 % | 14,90 | 14,00 | 14,61 | 14,50 |
| 9 | Kontrol + | 10,77 | 10,52 | 10,89 | 10,73 |
| 10 | Kontrol - | 15,47 | 15,43 | 15,25 | 15,38 |
| 11 | Air Suling | 8,34 | 8,65 | 8,66 | 8,55 |

Tabel 8. Data bobot jenis larutan uji fraksi I ekstrak heksan

| No | Sampel Uji | Bobot Jenis Larutan (gram/ml) | | | |
|----|---------------------|-------------------------------|-------|-------|-----------|
| | | 1 | 2 | 3 | Rata-rata |
| 1 | Subfraksi Ia 0,25 % | 1,091 | 1,001 | 1,092 | 1,061 |
| 2 | Subfraksi Ia 1 % | 1,003 | 1,090 | 1,049 | 1,047 |
| 3 | Subfraksi Ib 0,25 % | 1,000 | 1,092 | 1,004 | 1,032 |
| 4 | Subfraksi Ib 1 % | 1,091 | 0,999 | 1,090 | 1,060 |
| 5 | Subfraksi Ic 0,25 % | 1,046 | 1,047 | 1,051 | 1,048 |
| 6 | Subfraksi Ic 1 % | 1,041 | 1,049 | 1,042 | 1,044 |
| 7 | Subfraksi Id 0,25 % | 1,044 | 1,040 | 0,959 | 1,014 |
| 8 | Subfraksi Id 1 % | 1,039 | 1,039 | 1,039 | 1,039 |
| 9 | Kontrol + | 1,046 | 1,051 | 1,043 | 1,047 |
| 10 | Kontrol - | 1,001 | 1,091 | 1,040 | 1,044 |
| 11 | Air Suling | 1,041 | 1,031 | 1,042 | 1,038 |

Perhitungan bobot jenis (BJ) air pada suhu 37⁰C

$$BJ = \frac{\text{Bobot air (g)} - \text{bobot piknometer kosong (g)}}{\text{Volume piknometer rata-rata (ml)}}$$

$$= \frac{20,537 \text{ g} - 10,394 \text{ g}}{10 \text{ ml}} = 1,014$$

Bobot jenis air pada suhu 37⁰C adalah 1,042.

Diketahui bobot piknometer kosong : I = 9,683 g

$$II = 10,394 \text{ g}$$

Volume piknometer kosong : 10 ml

Perhitungan bobot jenis larutan uji yang mengandung fraksi heksan

$$\text{Bobot jenis mukus (37}^0\text{C)} = \frac{\text{Bobot mukus (g)} - \text{bobot piknometer kosong (g)}}{\text{Volume piknometer rata-rata (ml)}}$$

Subfraksi Ia 1%

$$BJ = \frac{\text{Bobot mukus (g)} - \text{bobot piknometer kosong (g)}}{\text{Volume piknometer rata-rata (ml)}}$$

$$BJ = \frac{19,714 \text{ g} - 9,683 \text{ g}}{10 \text{ ml}} = 1,003$$

$$BJ = \frac{21,295 \text{ g} - 10,394 \text{ g}}{10 \text{ ml}} = 1,090$$

$$BJ = \frac{20,882 \text{ g} - 10,394 \text{ g}}{10 \text{ ml}} = 1,049$$

Subfraksi Ia 0,25%

$$BJ = \frac{21,301 \text{ g} - 10,394 \text{ g}}{10 \text{ ml}} = 1,091$$

$$BJ = \frac{19,688 \text{ g} - 9,683 \text{ g}}{10 \text{ ml}} = 1,001$$

$$BJ = \frac{21,313 \text{ g} - 10,394 \text{ g}}{10 \text{ ml}} = 1,092$$

Subfraksi Ib 1%

$$BJ = \frac{21,304 \text{ g} - 10,394 \text{ g}}{10 \text{ ml}} = 1,091$$

$$BJ = \frac{19,673 \text{ g} - 9,683 \text{ g}}{10 \text{ ml}} = 0,999$$

$$BJ = \frac{21,292 \text{ g} - 10,394 \text{ g}}{10 \text{ ml}} = 1,090$$

Subfraksi Ib 0,25%

$$BJ = \frac{19,679 \text{ g} - 9,683 \text{ g}}{10 \text{ ml}} = 1,000$$

$$BJ = \frac{21,313 \text{ g} - 10,394 \text{ g}}{10 \text{ ml}} = 1,092$$

$$BJ = \frac{19,725 \text{ g} - 9,683 \text{ g}}{10 \text{ ml}} = 1,004$$

Subfraksi Ic 1%

$$BJ = \frac{20,097 \text{ g} - 9,683 \text{ g}}{10 \text{ ml}} = 1,041$$

$$BJ = \frac{20,879 \text{ g} - 10,394 \text{ g}}{10 \text{ ml}} = 1,049$$

$$BJ = \frac{20,107 \text{ g} - 9,683 \text{ g}}{10 \text{ ml}} = 1,042$$

Subfraksi Ic 0,25%

$$BJ = \frac{20,853 \text{ g} - 10,394 \text{ g}}{10 \text{ ml}} = 1,046$$

$$BJ = \frac{20,151 \text{ g} - 9,683 \text{ g}}{10 \text{ ml}} = 1,047$$

$$BJ = \frac{20,900 \text{ g} - 10,394 \text{ g}}{10 \text{ ml}} = 1,051$$

Subfraksi Id 1%

$$BJ = \frac{20,075 \text{ g} - 9,683 \text{ g}}{10 \text{ ml}} = 1,039$$

$$BJ = \frac{20,073 \text{ g} - 9,683 \text{ g}}{10 \text{ ml}} = 1,039$$

$$BJ = \frac{20,072 \text{ g} - 9,683 \text{ g}}{10 \text{ ml}} = 1,039$$

Subfraksi Id 0,25%

$$BJ = \frac{20,833 \text{ g} - 10,394 \text{ g}}{10 \text{ ml}} = 1,044$$

$$BJ = \frac{20,795 \text{ g} - 10,394 \text{ g}}{10 \text{ ml}} = 1,040$$

$$BJ = \frac{19,985 \text{ g} - 10,394 \text{ g}}{10 \text{ ml}} = 0,959$$

Kontrol Positif

$$BJ = \frac{20,143 \text{ g} - 9,683 \text{ g}}{10 \text{ ml}} = 1,046$$

$$BJ = \frac{20,908 \text{ g} - 10,394 \text{ g}}{10 \text{ ml}} = 1,051$$

$$BJ = \frac{20,112 \text{ g} - 9,683 \text{ g}}{10 \text{ ml}} = 1,043$$

Kontrol Negatif

$$BJ = \frac{19,689 \text{ g} - 9,683 \text{ g}}{10 \text{ ml}} = 1,001$$

$$BJ = \frac{21,308 \text{ g} - 10,394 \text{ g}}{10 \text{ ml}} = 1,091$$

$$BJ = \frac{20,080 \text{ g} - 9,683 \text{ g}}{10 \text{ ml}} = 1,040$$

Air

$$BJ = \frac{20,806 \text{ g} - 10,394 \text{ g}}{10 \text{ ml}} = 1,041$$

$$BJ = \frac{19,989 \text{ g} - 9,683 \text{ g}}{10 \text{ ml}} = 1,031$$

$$BJ = \frac{20,816 \text{ g} - 10,394 \text{ g}}{10 \text{ ml}} = 1,042$$

Perhitungan viskositas larutan uji pada suhu 37°C

$$\eta \text{ mukus} = \frac{\rho \text{ larutan uji } 37^\circ\text{C} \times t \text{ larutan uji } 37^\circ\text{C}}{\rho \text{ air } 37^\circ\text{C} \times t \text{ air } 37^\circ\text{C}} \times \eta \text{ air } 37^\circ\text{C}$$

Diketahui :

$$\eta \text{ air pada suhu } 37^\circ\text{C} = 0,692 \text{ cps}$$

$$t \text{ air} = 8,55 \text{ dtk}$$

η Subfraksi Ia 1%

$$\eta \text{ larutan uji} = \frac{1,003 \times 10,77}{1,041 \times 8,34} \times 0,692 = 0,861 \text{ cps}$$

$$\eta \text{ larutan uji} = \frac{1,090 \times 10,67}{1,031 \times 8,65} \times 0,692 = 0,902 \text{ cps}$$

$$\eta \text{ larutan uji} = \frac{1,049 \times 10,30}{1,042 \times 8,66} \times 0,692 = 0,829 \text{ cps}$$

$$\eta \text{ larutan uji rata-rata} = 0,864 \text{ cps}$$

η Subfraksi Ia 0,25%

$$\eta \text{ larutan uji} = \frac{1,091 \times 10,45}{1,041 \times 8,34} \times 0,692 = 0,909 \text{ cps}$$

$$\eta \text{ larutan uji} = \frac{1,001 \times 10,47}{1,031 \times 8,65} \times 0,692 = 0,813 \text{ cps}$$

$$\eta \text{ larutan uji} = \frac{1,092 \times 10,41}{1,042 \times 8,66} \times 0,692 = 0,872 \text{ cps}$$

η larutan uji rata-rata = 0,865 cps

η Subfraksi Ib 1%

$$\eta \text{ larutan uji} = \frac{1,091 \times 13,66}{1,041 \times 8,34} \times 0,692 = 1,188 \text{ cps}$$

$$\eta \text{ larutan uji} = \frac{0,999 \times 13,67}{1,031 \times 8,65} \times 0,692 = 1,060 \text{ cps}$$

$$\eta \text{ larutan uji} = \frac{1,090 \times 13,63}{1,042 \times 8,66} \times 0,692 = 1,139 \text{ cps}$$

η larutan uji rata-rata = 1,129 cps

η Subfraksi Ib 0,25%

$$\eta \text{ larutan uji} = \frac{1,000 \times 13,71}{1,041 \times 8,34} \times 0,692 = 1,093 \text{ cps}$$

$$\eta \text{ larutan uji} = \frac{1,092 \times 13,64}{1,031 \times 8,65} \times 0,692 = 1,156 \text{ cps}$$

$$\eta \text{ larutan uji} = \frac{1,004 \times 13,62}{1,042 \times 8,66} \times 0,692 = 1,049 \text{ cps}$$

η larutan uji rata-rata = 1,099 cps

η Subfraksi Ic 1%

$$\eta \text{ larutan uji} = \frac{1,041 \times 12,74}{1,041 \times 8,34} \times 0,692 = 1,057 \text{ cps}$$

$$\eta \text{ larutan uji} = \frac{1,049 \times 15,15}{1,031 \times 8,65} \times 0,692 = 1,233 \text{ cps}$$

$$\eta \text{ larutan uji} = \frac{1,042 \times 15,62}{1,042 \times 8,66} \times 0,692 = 1,248 \text{ cps}$$

η larutan uji rata-rata = 1,179 cps

η Subfraksi Ic 0,25%

$$\eta \text{ larutan uji} = \frac{1,046 \times 15,06}{1,041 \times 8,34} \times 0,692 = 1,256 \text{ cps}$$

$$\eta \text{ larutan uji} = \frac{1,047 \times 15,51}{1,031 \times 8,65} \times 0,692 = 1,260 \text{ cps}$$

$$\eta \text{ larutan uji} = \frac{1,051 \times 14,65}{1,042 \times 8,66} \times 0,692 = 1,181 \text{ cps}$$

η larutan uji rata-rata = 1,232 cps

η Subfraksi Id 1%

$$\eta \text{ larutan uji} = \frac{1,039 \times 14,90}{1,041 \times 8,34} \times 0,692 = 1,234 \text{ cps}$$

$$\eta \text{ larutan uji} = \frac{1,039 \times 14,00}{1,031 \times 8,65} \times 0,692 = 1,129 \text{ cps}$$

$$\eta \text{ larutan uji} = \frac{1,039 \times 14,61}{1,042 \times 8,66} \times 0,692 = 1,164 \text{ cps}$$

η larutan uji rata-rata = 1,176 cps

η Subfraksi Id 0,25%

$$\eta \text{ larutan uji} = \frac{1,044 \times 12,688}{1,041 \times 8,34} \times 0,692 = 1,055 \text{ cps}$$

$$\eta \text{ larutan uji} = \frac{1,040 \times 13,38}{1,031 \times 8,65} \times 0,692 = 1,080 \text{ cps}$$

$$\eta \text{ larutan uji} = \frac{0,959 \times 13,51}{1,042 \times 8,66} \times 0,692 = 0,994 \text{ cps}$$

η larutan uji rata-rata = 1,043 cps

η Kontrol Positif

$$\eta \text{ larutan uji} = \frac{1,046 \times 10,77}{1,041 \times 8,34} \times 0,692 = 0,898 \text{ cps}$$

$$\eta \text{ larutan uji} = \frac{1,051 \times 10,52}{1,031 \times 8,65} \times 0,692 = 0,858 \text{ cps}$$

$$\eta \text{ larutan uji} = \frac{1,043 \times 10,89}{1,042 \times 8,66} \times 0,692 = 0,871 \text{ cps}$$

η larutan uji rata-rata = 0,876 cps

η Kontrol Negatif

$$\eta \text{ larutan uji} = \frac{1,001 \times 15,47}{1,041 \times 8,34} \times 0,692 = 1,234 \text{ cps}$$

$$\eta \text{ larutan uji} = \frac{1,091 \times 15,43}{1,031 \times 8,65} \times 0,692 = 1,306 \text{ cps}$$

$$\eta \text{ larutan uji} = \frac{1,040 \times 15,25}{1,042 \times 8,66} \times 0,692 = 1,216 \text{ cps}$$

η larutan uji rata-rata = 1,252 cps

LAMPIRAN IV
FOTO PENGUJIAN



(a)



(b)



(c)



(d)

Keterangan: (a) Usus sapi , (b) Pengukuran waktu alir dengan viskometer Ostwald, (c) Sampel uji, (d) Pengukuran bobot jenis.

LAMPIRAN V

ANALISIS DATA

Analisis Data Ekstrak Heksan

Tests of Normality

| | Sampel | Kolmogorov-Smirnov ^a | | | Shapiro-Wilk | | |
|------------|-----------------|---------------------------------|----|------|--------------|----|------|
| | | Statistic | df | Sig. | Statistic | df | Sig. |
| Viskositas | Kontrol Positif | .304 | 3 | . | .907 | 3 | .407 |
| | Kontrol Negatif | .285 | 3 | . | .931 | 3 | .494 |
| | F I 1% | .355 | 3 | . | .820 | 3 | .163 |
| | F I 0.25% | .375 | 3 | . | .773 | 3 | .052 |
| | F II 1% | .295 | 3 | . | .920 | 3 | .451 |
| | F II 0.25% | .182 | 3 | . | .999 | 3 | .937 |
| | F III 1% | .219 | 3 | . | .987 | 3 | .780 |
| | F III 0.25% | .359 | 3 | . | .811 | 3 | .140 |
| | F IV 1% | .177 | 3 | . | 1.000 | 3 | .972 |
| | F IV 0.25% | .269 | 3 | . | .949 | 3 | .567 |

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

Viskositas

| Levene Statistic | df1 | df2 | Sig. |
|------------------|-----|-----|------|
| 4.812 | 9 | 20 | .002 |

Ranks

| | | N | Mean Rank | Sum of Ranks |
|---------------------|----------------|-----------------|-----------|--------------|
| Viskositas - Sampel | Negative Ranks | 30 ^a | 15.50 | 465.00 |
| | Positive Ranks | 0 ^b | .00 | .00 |
| | Ties | 0 ^c | | |
| | Total | 30 | | |

a. Viskositas < Sampel

b. Viskositas > Sampel

c. Viskositas = Sampel

Analisis Data Fraksi I

Tests of Normality

| | Sampel | Kolmogorov-Smirnov ^a | | | Shapiro-Wilk | | |
|----------------|-----------------|---------------------------------|----|------|--------------|----|------|
| | | Statistic | df | Sig. | Statistic | df | Sig. |
| | Kontrol Positif | .257 | 3 | . | .961 | 3 | .619 |
| | Kontrol Negatif | .314 | 3 | . | .893 | 3 | .363 |
| | F I 1 1% | .199 | 3 | . | .995 | 3 | .864 |
| | F I 1 0.25% | .227 | 3 | . | .983 | 3 | .749 |
| Visko sitas | F I 2 1% | .228 | 3 | . | .982 | 3 | .743 |
| | F I 2 0.25% | .214 | 3 | . | .990 | 3 | .805 |
| | F I 3 1% | .360 | 3 | . | .809 | 3 | .135 |
| | F I 3 0.25% | .369 | 3 | . | .788 | 3 | .086 |
| | F I 4 1% | .253 | 3 | . | .964 | 3 | .637 |
| | F I 4 0.25% | .274 | 3 | . | .945 | 3 | .547 |

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

Viskositas

| Levene Statistic | df1 | df2 | Sig. |
|------------------|-----|-----|------|
| 1.625 | 9 | 20 | .175 |

Viskositas

Tukey HSD

| Sampel | N | Subset for alpha = 0.05 | | |
|-----------------|---|-------------------------|---------|---------|
| | | 1 | 2 | 3 |
| F I 1 1% | 3 | .86400 | | |
| F I 1 0.25% | 3 | .86467 | | |
| Kontrol Positif | 3 | .87567 | | |
| F I 4 0.25% | 3 | | 1.04300 | |
| F I 2 0.25% | 3 | | 1.09933 | 1.09933 |
| F I 2 1% | 3 | | 1.12900 | 1.12900 |
| F I 4 1% | 3 | | 1.17567 | 1.17567 |
| F I 3 1% | 3 | | 1.17933 | 1.17933 |
| F I 3 0.25% | 3 | | | 1.23233 |
| Kontrol Negatif | 3 | | | 1.25200 |
| Sig. | | 1.000 | .149 | .076 |

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

| (I) Sampel | | Mean Difference (I-J) | Std. Error | Sig. | 95% Confidence Interval | |
|-----------------|-----------------|-----------------------|------------|-------|-------------------------|-------------|
| | | | | | Lower Bound | Upper Bound |
| Kontrol Positif | Kontrol Negatif | -.376333* | .045831 | .000 | -.53863 | -.21404 |
| | F_la 1% | .011667 | .045831 | 1.000 | -.15063 | .17396 |
| | F_la 0.25% | .011000 | .045831 | 1.000 | -.15129 | .17329 |
| | F_lb 1% | -.253333* | .045831 | .001 | -.41563 | -.09104 |
| | F_lb 0.25% | -.223667* | .045831 | .003 | -.38596 | -.06137 |
| | F_lc 1% | -.303667* | .045831 | .000 | -.46596 | -.14137 |
| | F_lc 0.25% | -.356667* | .045831 | .000 | -.51896 | -.19437 |
| | F_ld 1% | -.300000* | .045831 | .000 | -.46229 | -.13771 |
| | F_ld 0.25% | -.167333* | .045831 | .040 | -.32963 | -.00504 |

| | | | | | | |
|-----------------|-----------------|----------|---------|-------|---------|--------|
| Kontrol Negatif | Kontrol Positif | .376333* | .045831 | .000 | .21404 | .53863 |
| | F_la 1% | .388000* | .045831 | .000 | .22571 | .55029 |
| | F_la 0.25% | .387333* | .045831 | .000 | .22504 | .54963 |
| | F_lb 1% | .123000 | .045831 | .244 | -.03929 | .28529 |
| | F_lb 0.25% | .152667 | .045831 | .076 | -.00963 | .31496 |
| | F_lc 1% | .072667 | .045831 | .840 | -.08963 | .23496 |
| | F_lc 0.25% | .019667 | .045831 | 1.000 | -.14263 | .18196 |
| | F_ld 1% | .076333 | .045831 | .801 | -.08596 | .23863 |
| | F_ld 0.25% | .209000* | .045831 | .006 | .04671 | .37129 |

| | | | | | | |
|---------|-----------------|----------|---------|-------|---------|---------|
| F_la 1% | Kontrol Positif | -.011667 | .045831 | 1.000 | -.17396 | .15063 |
| | Kontrol Negatif | -.388000 | .045831 | .000 | -.55029 | -.22571 |
| | F_la 0.25% | -.000667 | .045831 | 1.000 | -.16296 | .16163 |
| | F_lb 1% | -.265000 | .045831 | .000 | -.42729 | -.10271 |
| | F_lb 0.25% | -.235333 | .045831 | .002 | -.39763 | -.07304 |
| | F_lc 1% | -.315333 | .045831 | .000 | -.47763 | -.15304 |
| | F_lc 0.25% | -.368333 | .045831 | .000 | -.53063 | -.20604 |
| | F_ld 1% | -.311667 | .045831 | .000 | -.47396 | -.14937 |
| | F_ld 0.25% | -.179000 | .045831 | .023 | -.34129 | -.01671 |

| | | | | | | |
|------------|-----------------|----------|---------|-------|---------|---------|
| F_la 0.25% | Kontrol Positif | -.011000 | .045831 | 1.000 | -.17329 | .15129 |
| | Kontrol Negatif | -.387333 | .045831 | .000 | -.54963 | -.22504 |
| | F_la 1% | .000667 | .045831 | 1.000 | -.16163 | .16296 |
| | F_lb 1% | -.264333 | .045831 | .000 | -.42663 | -.10204 |
| | F_lb 0.25% | -.234667 | .045831 | .002 | -.39696 | -.07237 |
| | F_lc 1% | -.314667 | .045831 | .000 | -.47696 | -.15237 |
| | F_lc 0.25% | -.367667 | .045831 | .000 | -.52996 | -.20537 |
| | F_ld 1% | -.311000 | .045831 | .000 | -.47329 | -.14871 |
| | F_ld 0.25% | -.178333 | .045831 | .024 | -.34063 | -.01604 |

| | | | | | | |
|---------|-----------------|----------|---------|-------|---------|--------|
| F_lb 1% | Kontrol Positif | .253333 | .045831 | .001 | .09104 | .41563 |
| | Kontrol Negatif | -.123000 | .045831 | .244 | -.28529 | .03929 |
| | F_la 1% | .265000 | .045831 | .000 | .10271 | .42729 |
| | F_la 0.25% | .264333 | .045831 | .000 | .10204 | .42663 |
| | F_lb 0.25% | .029667 | .045831 | 1.000 | -.13263 | .19196 |
| | F_lc 1% | -.050333 | .045831 | .979 | -.21263 | .11196 |
| | F_lc 0.25% | -.103333 | .045831 | .455 | -.26563 | .05896 |
| | F_ld 1% | -.046667 | .045831 | .987 | -.20896 | .11563 |
| | F_ld 0.25% | .086000 | .045831 | .683 | -.07629 | .24829 |

| | | | | | | |
|------------|-----------------|----------|---------|-------|---------|--------|
| F_lb 0.25% | Kontrol Positif | .223667 | .045831 | .003 | .06137 | .38596 |
| | Kontrol Negatif | -.152667 | .045831 | .076 | -.31496 | .00963 |
| | F_la 1% | .235333 | .045831 | .002 | .07304 | .39763 |
| | F_la 0.25% | .234667 | .045831 | .002 | .07237 | .39696 |
| | F_lb 1% | -.029667 | .045831 | 1.000 | -.19196 | .13263 |
| | F_lc 1% | -.080000 | .045831 | .759 | -.24229 | .08229 |
| | F_lc 0.25% | -.133000 | .045831 | .169 | -.29529 | .02929 |
| | F_ld 1% | -.076333 | .045831 | .801 | -.23863 | .08596 |
| | F_ld 0.25% | .056333 | .045831 | .958 | -.10596 | .21863 |

| | | | | | | |
|---------|-----------------|----------|---------|-------|---------|--------|
| F_lc 1% | Kontrol Positif | .303667 | .045831 | .000 | .14137 | .46596 |
| | Kontrol Negatif | -.072667 | .045831 | .840 | -.23496 | .08963 |
| | F_la 1% | .315333 | .045831 | .000 | .15304 | .47763 |
| | F_la 0.25% | .314667 | .045831 | .000 | .15237 | .47696 |
| | F_lb 1% | .050333 | .045831 | .979 | -.11196 | .21263 |
| | F_lb 0.25% | .080000 | .045831 | .759 | -.08229 | .24229 |
| | F_lc 0.25% | -.053000 | .045831 | .971 | -.21529 | .10929 |
| | F_ld 1% | .003667 | .045831 | 1.000 | -.15863 | .16596 |
| | F_ld 0.25% | .136333 | .045831 | .149 | -.02596 | .29863 |

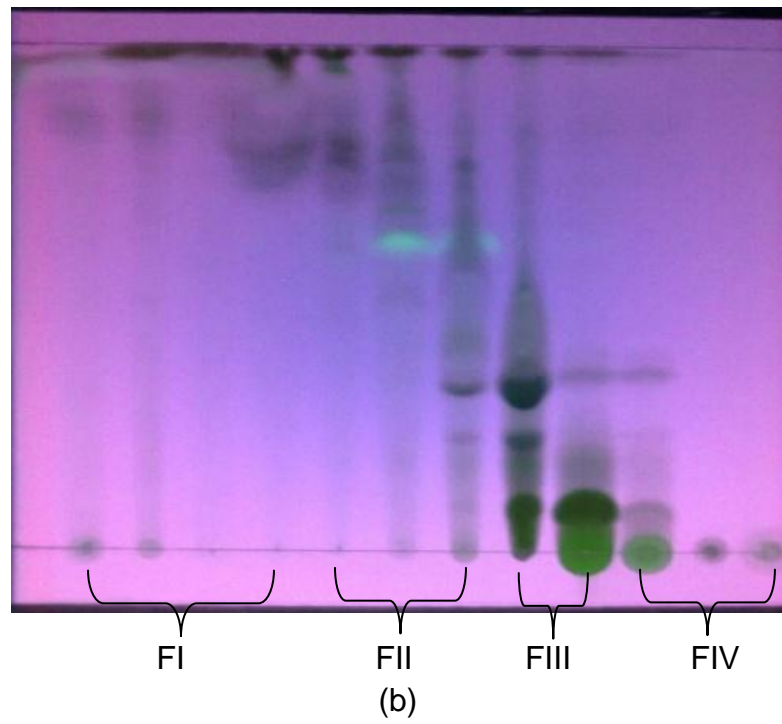
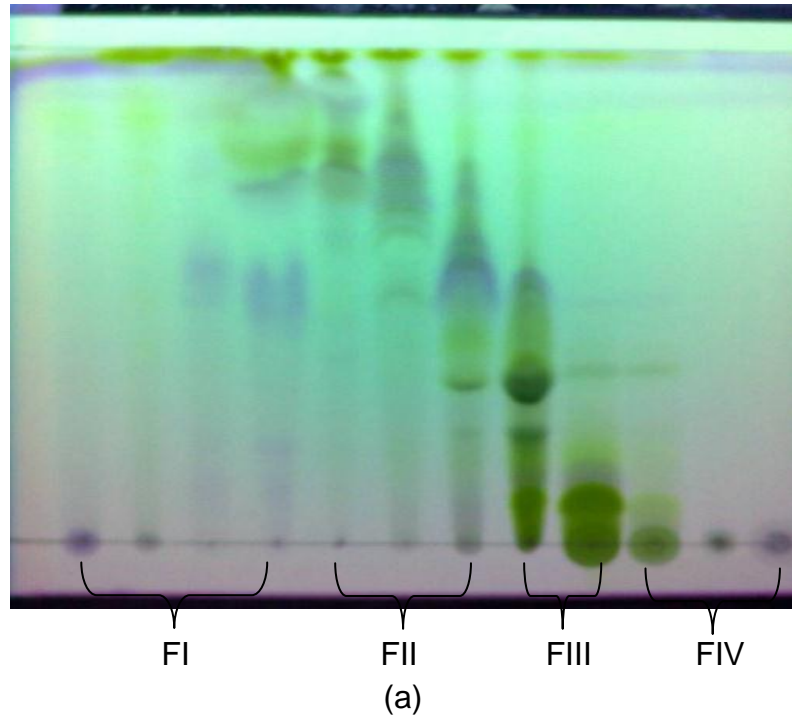
| | | | | | | |
|------------|-----------------|----------|---------|-------|---------|--------|
| F_lc 0.25% | Kontrol Positif | .356667 | .045831 | .000 | .19437 | .51896 |
| | Kontrol Negatif | -.019667 | .045831 | 1.000 | -.18196 | .14263 |
| | F_la 1% | .368333 | .045831 | .000 | .20604 | .53063 |
| | F_la 0.25% | .367667 | .045831 | .000 | .20537 | .52996 |
| | F_lb 1% | .103333 | .045831 | .455 | -.05896 | .26563 |
| | F_lb 0.25% | .133000 | .045831 | .169 | -.02929 | .29529 |
| | F_lc 1% | .053000 | .045831 | .971 | -.10929 | .21529 |
| | F_ld 1% | .056667 | .045831 | .957 | -.10563 | .21896 |
| | F_ld 0.25% | .189333 | .045831 | .015 | .02704 | .35163 |

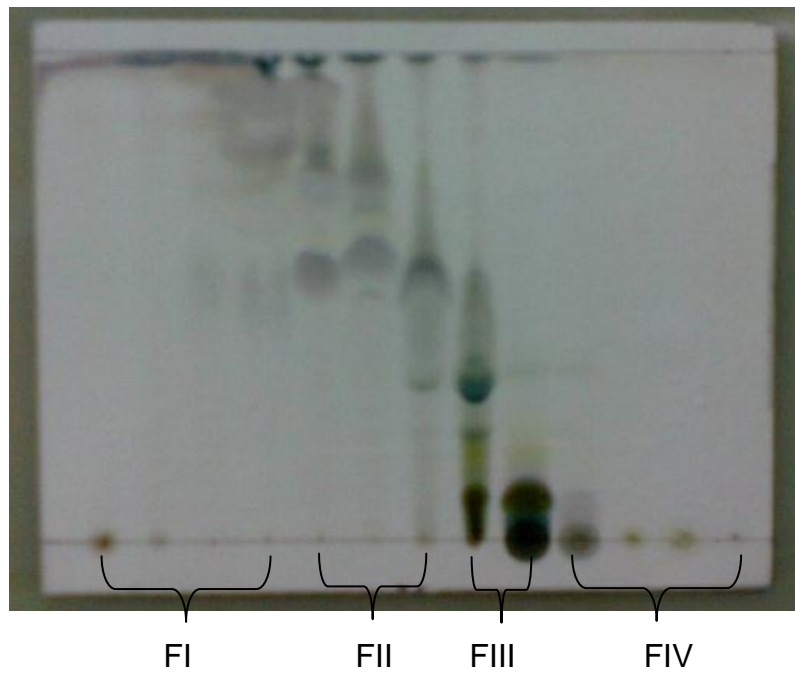
| | | | | | | |
|---------|-----------------|----------|---------|-------|---------|--------|
| F_Id 1% | Kontrol Positif | .300000* | .045831 | .000 | .13771 | .46229 |
| | Kontrol Negatif | -.076333 | .045831 | .801 | -.23863 | .08596 |
| | F_la 1% | .311667* | .045831 | .000 | .14937 | .47396 |
| | F_la 0.25% | .311000* | .045831 | .000 | .14871 | .47329 |
| | F_lb 1% | .046667 | .045831 | .987 | -.11563 | .20896 |
| | F_lb 0.25% | .076333 | .045831 | .801 | -.08596 | .23863 |
| | F_lc 1% | -.003667 | .045831 | 1.000 | -.16596 | .15863 |
| | F_lc 0.25% | -.056667 | .045831 | .957 | -.21896 | .10563 |
| | F_ld 0.25% | .132667 | .045831 | .171 | -.02963 | .29496 |

| | | | | | | |
|------------|-----------------|-----------|---------|------|---------|---------|
| F_Id 0.25% | Kontrol Positif | .167333* | .045831 | .040 | .00504 | .32963 |
| | Kontrol Negatif | -.209000* | .045831 | .006 | -.37129 | -.04671 |
| | F_la 1% | .179000* | .045831 | .023 | .01671 | .34129 |
| | F_la 0.25% | .178333* | .045831 | .024 | .01604 | .34063 |
| | F_lb 1% | -.086000 | .045831 | .683 | -.24829 | .07629 |
| | F_lb 0.25% | -.056333 | .045831 | .958 | -.21863 | .10596 |
| | F_lc 1% | -.136333 | .045831 | .149 | -.29863 | .02596 |
| | F_lc 0.25% | -.189333* | .045831 | .015 | -.35163 | -.02704 |
| | F_ld 1% | -.132667 | .045831 | .171 | -.29496 | .02963 |

*. The mean difference is significant at the 0.05 level.

LAMPIRAN VI

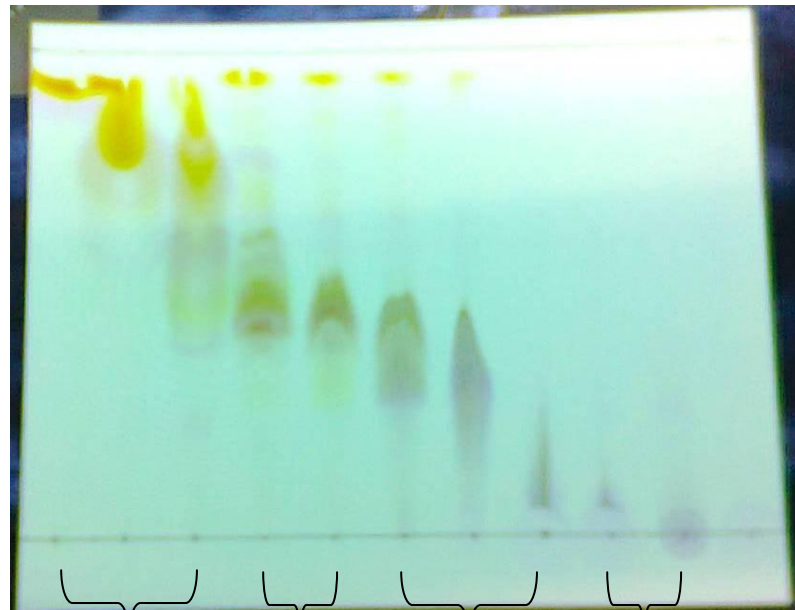




(c)

Gambar 5. Profil kromatografi lapis tipis ekstrak heksan daun pare (*Momordica charantia* L.) Keterangan: (a) Visualisasi dengan UV 254 nm, (b) visualisasi dengan UV 366 nm, (c) visualisasi setelah penyemprotan H₂SO₄ 10%. Fase diam silika gel, fase gerak heksan-etilasetat 5 : 1.

LAMPIRAN VII



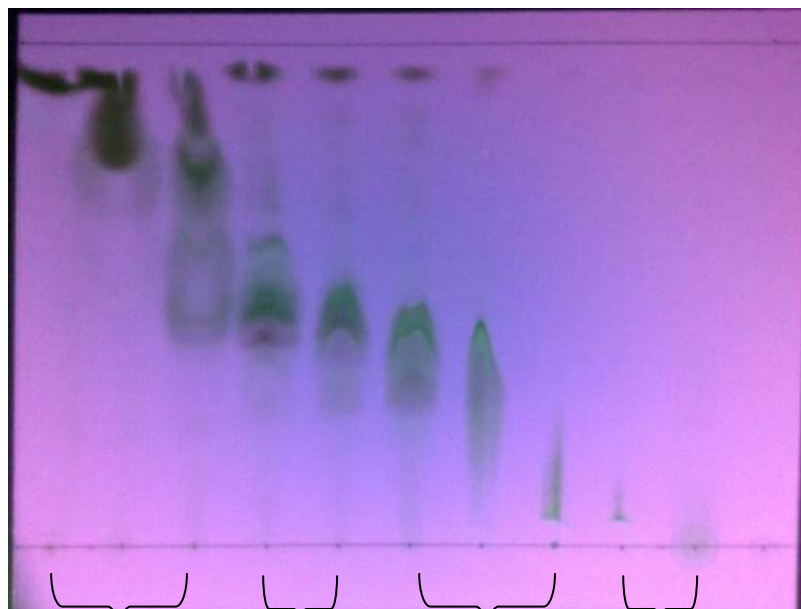
FI-a

FI-b

FI-c

FI-d

(a)



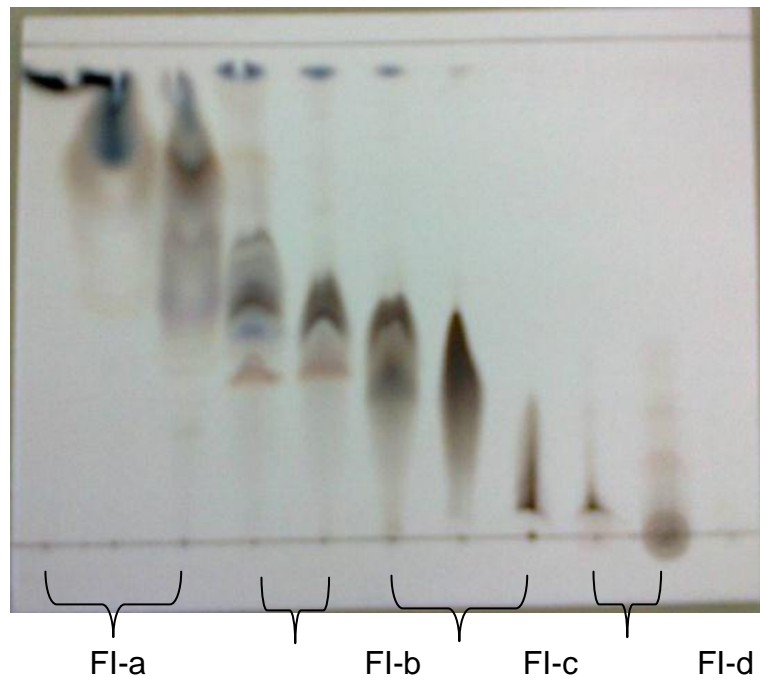
FI-a

FI-b

FI-c

FI-d

(b)

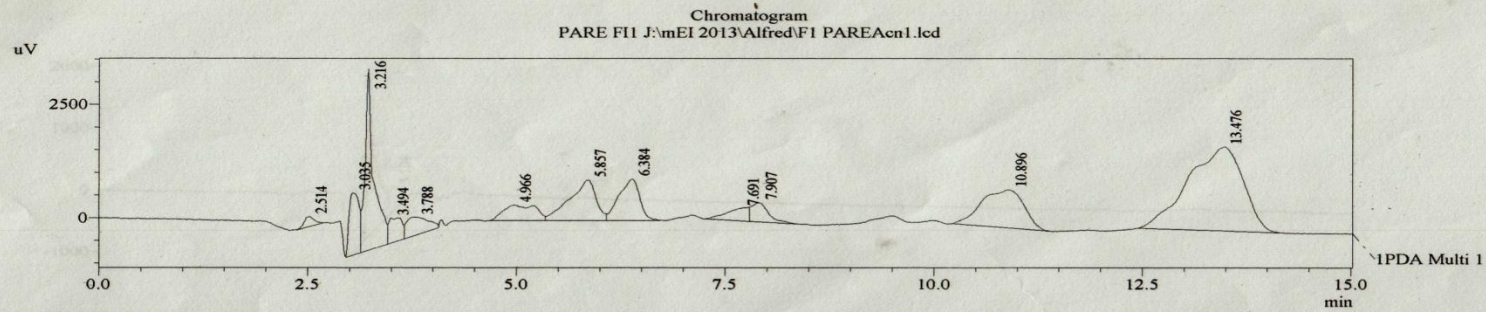


(c)

Gambar 6. Profil kromatografi lapis tipis fraksi I ekstrak heksan daun pare (*Momordica charantia* L.). Keterangan: (a) Visualisasi dengan UV 254 nm, (b) visualisasi dengan UV 366 nm, (c) visualisasi setelah penyemprotan H₂SO₄ 10%. Fase diam silika gel, fase gerak heksan-etilasetat 7 : 1.

LAMPIRAN VIII

PROFIL KCKT



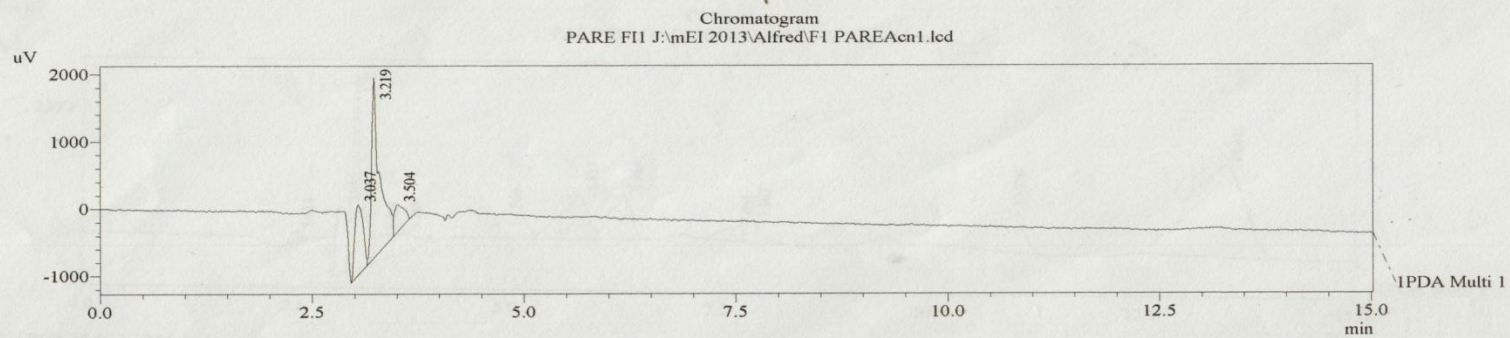
1 PDA Multi 1 / 254nm 4nm

Quantitative Results

| ID# | Name | Ret. Time | Area | Height | Conc. |
|-----|----------|-----------|-------|--------|-------|
| 1 | RT2.514 | 2.514 | 1849 | 219 | 0.000 |
| 2 | RT3.035 | 3.035 | 11549 | 1388 | 0.000 |
| 3 | RT3.216 | 3.216 | 28676 | 4010 | 0.000 |
| 4 | RT3.494 | 3.494 | 5772 | 557 | 0.000 |
| 5 | RT3.788 | 3.788 | 7235 | 405 | 0.000 |
| 6 | RT4.966 | 4.966 | 9273 | 344 | 0.000 |
| 7 | RT5.857 | 5.857 | 19620 | 892 | 0.000 |
| 8 | RT6.384 | 6.384 | 15735 | 914 | 0.000 |
| 9 | RT7.691 | 7.691 | 5385 | 279 | 0.000 |
| 10 | RT7.907 | 7.907 | 5900 | 427 | 0.000 |
| 11 | RT10.896 | 10.896 | 29654 | 839 | 0.000 |
| 12 | RT13.476 | 13.476 | 85995 | 1851 | 0.000 |

Sample Information

Acquired by : Admin
 Sample Name : PARE F11
 Sample ID : PARE F11
 Tray# : 1
 Vial# : 47
 Injection Volume : 10 uL
 Data Filename : F1 PAREAcn1.lcd
 Method Filename : PAREAcn 254.lcm
 Batch Filename : 24 MEI.lcb
 Report Filename : Default.lcr
 Date Acquired : 5/25/2013 4:48:44 PM
 Data Processed : 5/27/2013 12:36:25 PM
 fase gerak = Acn ; Air = 80 ; 20
 flow rate = 0.5 ml/min
 detektor : PDA
 Kolom : Shim-Pack Vp-Ods
 Suhu Kolom ; 40 oC
 Operator : ismail



1 PDA Multi 1 / 366nm 4nm

Quantitative Results

| PDA | | | | | |
|-----|---------|-----------|-------|--------|-------|
| ID# | Name | Ret. Time | Area | Height | Conc. |
| 1 | RT3.037 | 3.037 | 7174 | 1053 | 0.000 |
| 2 | RT3.219 | 3.219 | 17933 | 2690 | 0.000 |
| 3 | RT3.504 | 3.504 | 3107 | 411 | 0.000 |

Sample Information

Acquired by : Admin
 Sample Name : PARE FI1
 Sample ID : PARE FI1
 Tray# : 1
 Vail# : 47
 Injection Volume : 10 uL
 Data Filename : F1 PAREAcn1.lcd
 Method Filename : PAREacn 366.lcm
 Batch Filename : 24 MEI.lcb
 Report Filename : Default.lcr
 Date Acquired : 5/25/2013 4:48:44 PM
 Data Processed : 5/27/2013 12:39:44 PM
 fase gerak = Acn ; Air = 80 ;20
 flow rate = 0.5 ml/min
 detektor : PDA
 Kolom : Shim-Pack Vp-Ods
 Suhu Kolom : 40 oC
 Operator : ismail